

Listing of Claims

1. (Currently Amended) An initial synchronizing method of a mobile communication system, comprising:

- (a) dividing synchronous code data into a first part and a second part;
- (b) dividing baseband data into a first part and a second part;
- (c) generating calculating a first correlation value by operating based on multiplication of only one of the first part of the baseband data and the first part of the synchronous code data, or values the second part of the baseband data and the second part of the synchronous code data; [[and]]
- (d) detecting whether the first [[a]] correlation value is greater than a preset threshold value by comparing the operated correlation value with a preset threshold value; and
- (e) determining a synchronous position based on (d) if the first correlation value is greater than the preset threshold value.

2. (Currently Amended) The method of claim 1, wherein if the first correlation value is greater than the preset threshold value, then further comprising:

- reading additional baseband data and synchronous code data values;
- performing (a)-(c) for the additional baseband and synchronous code data;
- determining whether a second correlation value generated based on the additional baseband and synchronous code data is greater than the present threshold value;

determining which of the first or second correlation values is a maximum value; and

determining a baseband data position based on the ~~having a maximum correlation~~
value, ~~among correlation values greater than the threshold value as a~~ the synchronous position
corresponding to or being based on the baseband data position.

3. (Currently Amended) The method of claim 1, wherein, in (c), the first correlation
value is generated based on multiplication of the first part operation of the baseband data and
the first part of the synchronous code data, the first parts corresponding to is performed by
multiplying real number units of the baseband data and by real number unit of the synchronous
code data.

4. (Canceled)

5. (Canceled)

6. (Currently Amended) An initial synchronizing method of a mobile communication
system, comprising:

~~calculating correlation values by~~ extracting baseband data by dividing it into a
certain block units ~~and;~~

generating a correlation value based on ~~operating~~ the extracted baseband data and
~~with~~ synchronous code data;

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detecting whether the correlation value is greater than a preset threshold value;

if the correlation value is greater than the preset threshold value, then multiplying
previous/next data of the detected baseband data by only a real number unit of the synchronous
code data; and

determining a synchronous position based on a result of said multiplication

detecting baseband data having a correlation value greater than a preset threshold
value by comparing the calculated correlation values with the present threshold value.

7-10 (Canceled)